

A REVISION OF SOME TYPES OF JURASSIC INSECTS IN THE TEYLER MUSEUM, HAARLEM

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Silpha tenuielythris was described by WEYENBERGH (1869, p. 280, pl. 37 fig. 48) from five specimens bearing the catalogue numbers 6402, 6408, 6473, 6519, and 6522. Catalogue no. 6473, which was renumbered no. 15457 by WINKLER (1896, p. 314), is the specimen figured by WEYENBERGH; it is hereby selected as lectotype of WEYENBERGH's species. Catalogue no. 6519 was considered a *Mesoblattina* sp. by MEUNIER and listed as such by WINKLER (1896, p. 306) under the new number 15332. On re-examination all five syntypes of *Silpha tenuielythris* proved to be blattids, which present no characters prohibiting us to consider them ill preserved specimens of *Lithoblatta lithophila* (Germar, 1839).

HANDLIRSCH (1906, p. 639) put WEYENBERGH's species in the Corixidae and erected the genus *Mesocorixa* for it. *Mesocorixa tenuielythris* would be characterized by the presence of cilia along the margin of the abdomen, and by a transversely striated proboscis. None of the five syntypes, however, show these characters. Probably HANDLIRSCH based his description of *Mesocorixa tenuielythris* on catalogue no. 6402, in which the ends of the wing nervules might be mistaken for cilia and the crowded nervules along the anterior side of the anal area of the forewing for striae on a proboscis, since these nervules show along the anterior margin of the prothorax when the wing is not stretched (cf. figs. 1, 2). This specimen is the best preserved of the series, showing several structural details which are typically blattoid. It strikingly resembles another specimen in our collection, catalogue no. 6415, recorded as a problematicum and most miserably figured by WEYENBERGH (1874, pp. 86, 106, pl. 3 fig. 16).

The type of *Apiaria veterana* Weyenbergh (1869, p. 260, pl. 34 fig. 8) was catalogue no. 6480 and has been renumbered 15305; the type of *Bombus conservatus* Weyenbergh (1869, p. 259, pl. 34 fig. 7) originally bore the catalogue number 6460 and has been renumbered 15324. I fully agree with MEUNIER (1859b, p. CCXXIII) that they are both most probably specimens of *Lithoblatta lithophila* (Germar, 1839).

Catalogue no. 15357/15358 was figured by MEUNIER (1897, pl. 9 fig. 14) under the name *Mesoblattina lithophila* Germar, and HANDLIRSCH (1906, p. 530) referred to MEUNIER's figure in his synonymy of *Lithoblatta lithophila*. The specimen seems to be a blattid indeed, but it can not belong to GERMAR's species because of its large dimensions: the wing length is 22 mm. Owing to bad preservation the specimen shows hardly any structural details. Therefore better

material should be awaited before describing this apparently new species.

Phaneroptera striata Weyenbergh (1869, p. 275, pl. 36 fig. 28) was based on one specimen, catalogue no. 6582. HANDLIRSCH (1907, p. 645) writes: "Es kann sein, dass dieses Fossil wirklich ein Stück eines Orthopterenflügels ist". I am, on the contrary, convinced that this fossil does not belong to the Insecta at all, but is most probably a fragmental cast of a specimen of *Pinna* (Mollusca, Bivalvia). The shape of this cast (fig. 3) reminds one of the forewing of a grasshopper. It bears about eight slightly diverging longitudinal ridges which WEYENBERGH must have mistaken for wing nerves. There is hardly any transverse sculpture. The specimen is too scanty for us to settle its specific identity. Fortunately the name *Pinna striata* (Weyenbergh) is preoccupied by *Pinna striata* Defrance, 1826.

Pycnophlebia minor Handlirsch (1906, p. 520) was based on two figures published by MEUNIER. These figures, therefore, represent the two syntypes of the species, of which one is catalogue no. 15407/15408 in the Teyler Museum, while the other belongs to the Munich Museum. The wing length of the specimen in the Teyler Museum is 58 mm, that is 12 mm less than the measurement given by HANDLIRSCH for this species, and confirmed by CARPENTER (1932, p. 118). According to kind information received from Professor Dr. J. SCHRÖDER it has already for years been impossible to find the Munich specimen. Thus it is for the moment impossible to learn if the dimensions of the second syntype agree with HANDLIRSCH's diagnosis.

Opsis bavarica is a Coleopteron described by HANDLIRSCH (1906, p. 544, pl. 45 fig. 12) after figures published by MEUNIER (1897, pl. 9 fig. 17, pl. 10 fig. 18). The type is catalogue no. 15416 (= 13133)/ 15417 (= 13134). As HANDLIRSCH already feared, MEUNIER's figures show the insect enlarged; the total length is 19 mm, and that of the elytra 14 mm. This beetle has three ridges on each elytron.

Cetonia (?) *defossa* was described by WEYENBERGH (1869, p. 282, pl. 37 fig. 52) after three specimens. Two of these are the catalogue nos. 6368 and 6429, but I have been unable to trace the third syntype. Catalogue no. 6368 is the specimen figured by WEYENBERGH; it has been refigured by MEUNIER (1897, pl. 10 fig. 19) as catalogue no. 15361, and is hereby selected as the lectotype of WEYENBERGH's species.

HANDLIRSCH (1906, p. 546) thinks it probable that *Cetonia* (?) *defossa* is a synonym of *Ditomoptera dubia* Germar, 1839. In the lectotype the sculpture of the right elytron is preserved in a small area. It consists of longitudinal rows of close-set, somewhat hexagonal points of about $1/3$ mm diameter. From the published figures of *Ditomoptera dubia* it does not appear that the elytra have such a sculpture, but HANDLIRSCH states that the species has "punktstreifigen Flügeldecken".

Procalosoma giardi Meunier (1895a, p. 206, 2 figs.) was based on catalogue nos. 13177/13178, renumbered 15299/15300 by WINKLER (1896, p. 312). HANDLIRSCH (1906, p. 548) apparently took the measurements of this species from MEUNIER's figures, which are reduced, although MEUNIER states that they are natural size. In fact the total length is 32 mm and the elytra are 19.5 mm long.

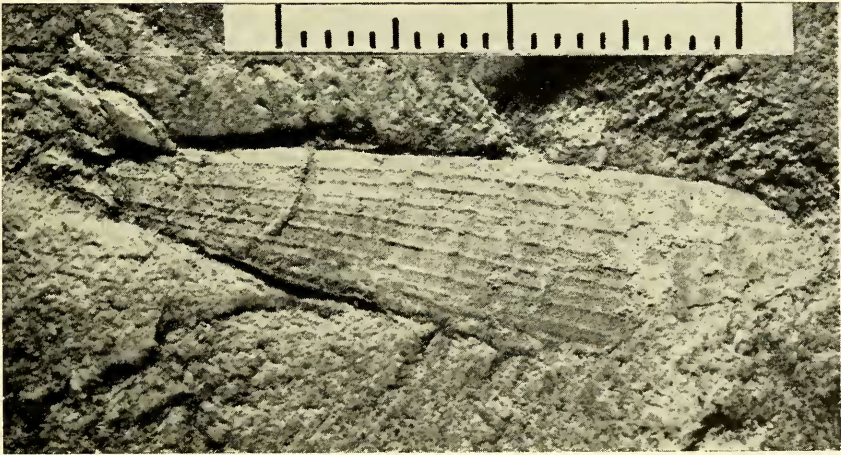
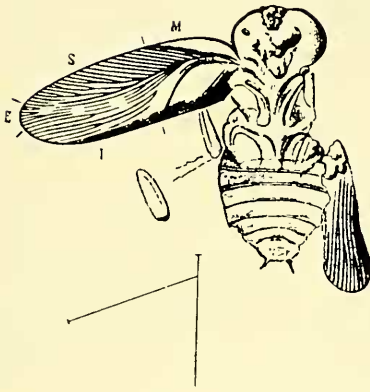


Fig. 1. *Lithoblatta lithophila* (Germar), after Deichmüller, 1886. Fig. 2. *Silpha tenuelythris* Weyenbergh, syntype, catalogue no. 6402. Scale: millimeters. B. F. M. Collet phot. Fig. 3. *Phaneroptera striata* Weyenbergh, type, catalogue no. 6582. Scale: millimeters. B. F. M. Collet phot.